

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-172589

(43)Date of publication of application : 23.06.2000

(51)Int.Cl. G06F 13/00
H04L 12/54
H04L 12/58

(21)Application number : 10-350527 (71)Applicant : NIPPON TELEGR & TELEPH
CORP <NTT>

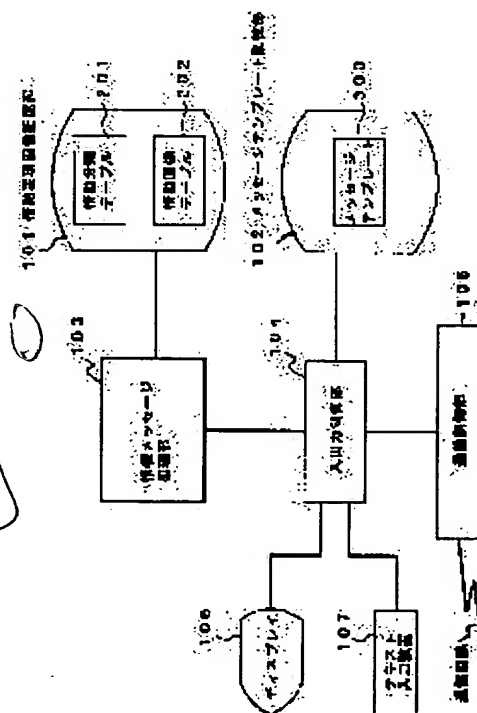
(22)Date of filing : 09.12.1998 (72)Inventor : YONEMURA SHUNICHI
NAKANO HIROTAKA

(54) EMOTION IMAGE COMMUNICATION METHOD AND DEVICE, AND RECORDING MEDIUM RECORDING EMOTION IMAGE COMMUNICATION PROGRAM

(57)Abstract:

PROBLEM TO BE SOLVED: To easily and properly transmit its own emotion to the opposite party together with a message in a message transmission/reception system.

SOLUTION: The emotion expressions are sorted into plural types, and the identification ID and an emotion image are associated with each other and prepared at the transmitting and receiving sides respectively. At the transmitting side, the ID corresponding to an emotion expression and selected by a user is added to a message and transmitted. At the receiving side, an emotion image corresponding to the ID that is added to the message is selected and presented to the user together with the message.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of

rejection]

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

CLAIMS

[Claim(s)]

[Claim 1] An emotion expression is classified into two or more kinds, Discernment ID and an emotion image are matched, and it prepares mutually by the transmitting side and the receiving side beforehand. In a transmitting side The emotion pictorial communication approach characterized by what the emotion image which added the discernment ID corresponding to the emotion expression which the user chose to the message, transmitted, chose the emotion image corresponding to the discernment ID added to the message in the receiving side, and was this chosen with the message is shown to a user for.

[Claim 2] The means which classified the emotion expression into two or more kinds, and matched and stored Discernment ID and an emotion image, A means to store the message template which specifies the format of a sent received message, A means to add the discernment ID corresponding to the emotion expression which created the outgoing message based on the message template, and the user chose as this outgoing message, and to transmit, Emotion pictorial communication equipment characterized by providing a means to choose the emotion image corresponding to the discernment ID added to the received message, to assemble a message and the this chosen emotion image based on a message template, and to show a user.

[Claim 3] By classifying an emotion expression into two or more kinds, matching with Discernment ID and an emotion image, and holding It is the record medium which recorded the emotion image communications program for transmitting and receiving an emotion expression with a message and in which computer reading is possible. The process which adds the discernment ID corresponding to the emotion expression which the user chose to a message, and is transmitted, The record medium characterized by recording the process which chooses the emotion image corresponding to the discernment ID added to the received message, and is shown to a user with a received message, and **.

[Translation done.]

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to transmission and reception of an image message, and relates to the record medium which recorded the emotion image communications program on the emotion image correspondence procedure which chooses in detail the image which suits its feeling from two or more kinds of emotion images prepared beforehand, and shows a partner it with a message and equipment, and a list.

[0002]

[Description of the Prior Art] By combining conventionally notations which write in the sentence expressing their current emotion, such as an approach, a parenthesis, and a greater than sign, in a text as an approach of telling against an informer's emotion in transmission and reception of an image message, the face mark expressing a current emotion is created and there is the approach of writing it in a message document etc.

[0003]

[Problem(s) to be Solved by the Invention] By the approach of writing in the sentence expressing one's emotion into a text, since it is necessary to newly create the text which expresses an emotion appropriately, there is a problem that it is accompanied by the difficulty on an expression and the complicatedness of document preparation. Moreover, by the approach of constituting a face mark combining notations, such as a parenthesis and a greater than sign, the class of face mark is restricted, and since the class of emotion is not comprehensive, there is a problem that its emotion cannot necessarily be expressed appropriately.

[0004] In transmission and reception of an image message, the purpose of this invention solves the above-mentioned conventional problem, and is to offer the record medium which recorded the emotion image communications program on the emotion image correspondence procedure and equipment which tell against their feeling easily, and a list.

[0005]

[Means for Solving the Problem] This invention classifies an emotion expression into two or more kinds, matches it with Discernment ID and an emotion image, and is beforehand prepared mutually by the transmitting side and the receiving side. In a transmitting side It is having shown the user the emotion image which added the discernment ID corresponding to the emotion expression which the user's chose to the message, transmitted, chose the emotion image corresponding to the discernment ID added to the message in the receiving side, and was this chosen with the message. Thereby, it becomes possible to tell against one's emotion easily and appropriately.

[0006]

[Embodiment of the Invention] Hereafter, the gestalt of 1 operation of this invention is explained with reference to a drawing. Drawing 1 is the block diagram showing one example of the emotion image communication device by this invention. This emotion pictorial communication equipment consists of the information expression image storage section 101, the message template storage section 102, the emotion message-processing section 103, I/O control unit 104, the communications control section 105, a display 106, and text input equipment 107. The terminal of such emotion pictorial communication equipment is mutually connected through a communication line, and transmission and reception of an image message are performed.

[0007] The emotion expression image storage section 101 stores the emotion classification table 201 and the emotion image table 202, and shows the example to drawing 2. As the emotion classification table 201 is shown in drawing 2 (A), the discernment ID of an emotion, the classification information on an emotion, and the emotion expression image ID are stored in the emotion expression correspondence defined beforehand, and the emotion image table 202 stores the actual emotion expression image in emotion expression image ID correspondence, as shown in drawing 2 (B).

[0008] Although there is various knowledge about the cognition of an emotion, six kinds of categorization by Woodworth is known as classification of an emotion with the high sensibility which is mistaken and can recognize an emotion from a photograph of his face especially that there is nothing. Although drawing 2 is based on six kinds of categorization by this Woodworth, the number of emotion images does not necessarily need to be six.

[0009] The message template storage section 102 stores the template (message template) 300 which specifies the message format used by this emotion pictorial communication, and shows the example to drawing 3. The message template 300 consists of the header information viewing area 301, this text display field 302, and an emotion image display field 303, as shown in drawing 3.

[0010] Hereafter, although the example of the emotion pictorial communication of this invention of operation is explained about drawing 1 thru/or drawing 3, the example of operation in the case of transmitting and receiving an electronic mail is shown here.

[0011] First, a transmitting side is explained. A user directs message creation for transmission by the carbon button selection on the display screen of a display 106, the function key input from text input equipment 107, etc. In response to the message creation directions for transmission, the message template 300 as shown in drawing 3 from the message template storage section 102 is read by I/O control unit 104, and it is displayed on a display 106. A user inputs a text document from text input equipment 107 in accordance with the message template 300 displayed on the display 106. The inputted text document is displayed on a display 106 through I/O control unit 104.

[0012] Furthermore, a user directs an emotion classification menu display by the carbon button selection on the display screen of a display 106, the function key input from text input equipment 107, etc., in order to show against an emotion image. Thereby, the dialog of an emotion classification menu is displayed on a display 106 through I/O control unit 104. Drawing 4 is ** as which the situation of an emotion classification menu display is indicated to be, for example, the emotion classification menu 400 is displayed on a message template in piles. A user chooses the target **** from this emotion classification menu 400 by which it was indicated by the dialog. Here, suppose that "surprise" was chosen. The discernment ID (here E02) corresponding to **** (surprise) chosen by this user is sent to the emotion message-processing section 103 while it is stored temporarily at I/O control unit 104. Sent discernment ID is used as a key in the emotion message-processing section 103, the emotion expression image ID is searched from the information classification table 201 as shown in drawing 2 (A), the emotion image table 202 as shown in drawing 2 (B) is searched by using the searched emotion expression image ID (here PE02) as a key, and the this searched emotion image is returned to I/O control unit 104. This emotion image is assembled by format as decided by the text template 300, and is displayed on a display 106 while it is stored temporarily at I/O control unit 104. Drawing 5 shows the situation of a display of the display 106 at this time.

[0013] A user is sure of the target emotion image having been assembled by predetermined format with the display screen of a display 106, and inputs a message-sending command with text input equipment 107. It is possible for this to choose the transmitting carbon button on the display screen of a display 106 etc. By the input of this message-sending command, an outgoing message including the discernment ID of the selected emotion image is sent to the communications control section 105 through I/O control unit 104, and is transmitted to the terminal of partner emotion pictorial communication equipment through a communication line from this communications control section 105.

[0014] Next, actuation of a receiving side is explained. An electronic mail is sent to the communications control section 105 through a communication wire from a partner terminal. For example, it is this sent message, it passes and the discernment ID of a partner user's emotion image is included in DDA information. The received message is accumulated in I/O control unit 104 temporarily. The discernment ID of the emotion image which can come, simultaneously is contained in a message (here E02) is sent to the emotion message-processing section 103.

[0015] In the emotion message-processing section 103, the emotion classification table 201 as shown in drawing 2 (A) from the emotion expression image storage section 101 is read, and it collates whether the discernment ID sent from I/O control unit 104 and the discernment ID in agreement exist. If the

applicable discernment ID exists as a result of collating, the emotion message-processing section 103 will read the target emotion expression image from the emotion image table 202 as shows the emotion expression image ID corresponding to this discernment ID to a key at drawing 2 (B) of the emotion expression image storage section 101, and will send the image to I/O control unit 104. In addition, when the applicable discernment ID does not exist as a result of collating, the emotion message-processing section 103 sees off Nur Cord in I/O control unit 104.

[0016] On the other hand, the template 300 for a message design as shown in drawing 3 is read into I/O control unit 104 from the message template storage section 102. Similarly in I/O control unit 104, the emotion expression image sent from the emotion message-processing section 103 at the same time it assembles in the format contained in the received electronic mail as it passed and DDA information and a message body were decided by the message template 301 is assembled according to the format of a template. In I/O control unit 104, the information assembled as specified by the message template 301 is sent and displayed on a display 106. Drawing 6 shows the example of a display of the message sentence on a display 106. With a natural thing, this is the same as drawing 5.

[0017] Although one example of this invention was explained above, the configuration of drawing 1 is realized using the so-called hardware and the so-called software resource of a computer. And the processing facility and procedure (process) of the emotion MESSEDO processing section 103, I/O control unit 104, and the communications control section 105 can be recorded and shown to a floppy disk, a memory card, CD-ROM, etc. as a program (emotion image communications program) of the format which can be performed by computer.

[0018]

[Effect of the Invention] As explained above, according to this invention, in transmission and reception of a message, it can tell against its feeling (emotion) easily and appropriately. Moreover, since it changes to an emotion image at a message and the discernment ID is only added, the increment in amount of information is equal to twisting almost.

TECHNICAL FIELD

[Field of the Invention] This invention relates to transmission and reception of an image message, and relates to the record medium which recorded the emotion image communications program on the emotion image correspondence procedure which chooses in detail the image which suits its feeling from two or more kinds of emotion images prepared beforehand, and shows a partner it with a message and equipment, and a list.

[Translation done.]

PRIOR ART

[Description of the Prior Art] By combining conventionally notations which write in the sentence expressing their current emotion, such as an approach, a parenthesis, and a greater than sign, in a text as an approach of telling against an informer's emotion in transmission and reception of an image message, the face mark expressing a current emotion is created and there is the approach of writing it in a message document etc.

[Translation done.]

EFFECT OF THE INVENTION

[Effect of the Invention] As explained above, according to this invention, in transmission and reception of a message, it can tell against its feeling (emotion) easily and appropriately. Moreover, since it changes to an emotion image at a message and the discernment ID is only added, the increment in amount of information is equal to twisting almost.

[Translation done.]

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] By the approach of writing in the sentence expressing one's emotion into a text, since it is necessary to newly create the text which expresses an emotion appropriately, there is a problem that it is accompanied by the difficulty on an expression and the complicatedness of document preparation. Moreover, by the approach of constituting a face mark combining notations, such as a parenthesis and a greater than sign, the class of face mark is restricted, and since the class of emotion is not comprehensive, there is a problem that its emotion cannot necessarily be expressed appropriately.

[0004] In transmission and reception of an image message, the purpose of this invention solves the above-mentioned conventional problem, and is to offer the record medium which recorded the emotion image communications program on the emotion image correspondence procedure and equipment which tell against their feeling easily, and a list.

[Translation done.]

MEANS

[Means for Solving the Problem] This invention classifies an emotion expression into two or more kinds, matches it with Discernment ID and an emotion image, and is beforehand prepared mutually by the transmitting side and the receiving side. In a transmitting side It is having shown the user the emotion image which added the discernment ID corresponding to the emotion expression which the user's chose to the message, transmitted, chose the emotion image corresponding to the discernment ID added to the message in the receiving side, and was this chosen with the message. Thereby, it becomes possible to tell against one's emotion easily and appropriately.

[0006]

[Embodiment of the Invention] Hereafter, the gestalt of 1 operation of this invention is explained with reference to a drawing. Drawing 1 is the block diagram showing one example of the emotion image communication device by this invention. This emotion pictorial communication equipment consists of the information expression image storage section 101, the message template storage section 102, the emotion message-processing section 103, I/O control unit 104, the communications control section 105, a display 106, and text input equipment 107. The terminal of such emotion pictorial communication equipment is mutually connected through a communication line, and transmission and reception of an image message are performed.

[0007] The emotion expression image storage section 101 stores the emotion classification table 201 and the emotion image table 202, and shows the example to drawing 2. As the emotion classification table 201 is shown in drawing 2 (A), the discernment ID of an emotion, the classification information on an emotion, and the emotion expression image ID are stored in the emotion expression correspondence defined beforehand, and the emotion image table 202 stores the actual emotion expression image in emotion expression image ID correspondence, as shown in drawing 2 (B).

[0008] Although there is various knowledge about the cognition of an emotion, six kinds of categorization by Woodworth is known as classification of an emotion with the high sensibility which is mistaken and can recognize an emotion from a photograph of his face especially that there is nothing. Although drawing 2 is based on six kinds of categorization by this Woodworth, the number of emotion images does not necessarily need to be six.

[0009] The message template storage section 102 stores the template (message template) 300 which specifies the message format used by this emotion pictorial communication, and shows the example to drawing 3. The message template 300 consists of the header information viewing area 301, this text display field 302, and an emotion image display field 303, as shown in drawing 3.

[0010] Hereafter, although the example of the emotion pictorial communication of this invention of operation is explained about drawing 1 thru/or drawing 3, the example of operation in the case of transmitting and receiving an electronic mail is shown here.

[0011] First, a transmitting side is explained. A user directs message creation for transmission by the carbon button selection on the display screen of a display 106, the function key input from text input equipment 107, etc. In response to the message creation directions for transmission, the message template 300 as shown in drawing 3 from the message template storage section 102 is read by I/O control unit 104, and it is displayed on a display 106. A user inputs a text document from text input equipment 107 in accordance with the message template 300 displayed on the display 106. The inputted text document is displayed on a display 106 through I/O control unit 104.

[0012] Furthermore, a user directs an emotion classification menu display by the carbon button selection on the display screen of a display 106, the function key input from text input equipment 107, etc., in order to show against an emotion image. Thereby, the dialog of an emotion classification menu is displayed on a display 106 through I/O control unit 104. Drawing 4 is ** as which the situation of an emotion classification menu display is indicated to be, for example, the emotion classification menu 400 is displayed on a message template in piles. A user chooses the target **** from this emotion classification menu 400 by which it was indicated by the dialog. Here, suppose that "surprise" was

chosen. The discernment ID (here E02) corresponding to **** (surprise) chosen by this user is sent to the emotion message-processing section 103 while it is stored temporarily at I/O control unit 104. Sent discernment ID is used as a key in the emotion message-processing section 103, the emotion expression image ID is searched from the information classification table 201 as shown in drawing 2 (A), the emotion image table 202 as shown in drawing 2 (B) is searched by using the searched emotion expression image ID (here PE02) as a key, and the this searched emotion image is returned to I/O control unit 104. This emotion image is assembled by format as decided by the text template 300, and is displayed on a display 106 while it is stored temporarily at I/O control unit 104. Drawing 5 shows the situation of a display of the display 106 at this time.

[0013] A user is sure of the target emotion image having been assembled by predetermined format with the display screen of a display 106, and inputs a message-sending command with text input equipment 107. It is possible for this to choose the transmitting carbon button on the display screen of a display 106 etc. By the input of this message-sending command, an outgoing message including the discernment ID of the selected emotion image is sent to the communications control section 105 through I/O control unit 104, and is transmitted to the terminal of partner emotion pictorial communication equipment through a communication line from this communications control section 105.

[0014] Next, actuation of a receiving side is explained. An electronic mail is sent to the communications control section 105 through a communication wire from a partner terminal. For example, it is this sent message, it passes and the discernment ID of a partner user's emotion image is included in DDA information. The received message is accumulated in I/O control unit 104 temporarily. The discernment ID of the emotion image which can come, simultaneously is contained in a message (here E02) is sent to the emotion message-processing section 103.

[0015] In the emotion message-processing section 103, the emotion classification table 201 as shown in drawing 2 (A) from the emotion expression image storage section 101 is read, and it collates whether the discernment ID sent from I/O control unit 104 and the discernment ID in agreement exist. If the applicable discernment ID exists as a result of collating, the emotion message-processing section 103 will read the target emotion expression image from the emotion image table 202 as shows the emotion expression image ID corresponding to this discernment ID to a key at drawing 2 (B) of the emotion expression image storage section 101, and will send the image to I/O control unit 104. In addition, when the applicable discernment ID does not exist as a result of collating, the emotion message-processing section 103 sees off Nur Cord in I/O control unit 104.

[0016] On the other hand, the template 300 for a message design as shown in drawing 3 is read into I/O control unit 104 from the message template storage section 102. Similarly in I/O control unit 104, the emotion expression image sent from the emotion message-processing section 103 at the same time it assembles in the format contained in the received electronic mail as it passed and DDA information and a message body were decided by the message template 301 is assembled according to the format of a template. In I/O control unit 104, the information assembled as specified by the message template 301 is sent and displayed on a display 106. Drawing 6 shows the example of a display of the message sentence on a display 106. With a natural thing, this is the same as drawing 5.

[0017] Although one example of this invention was explained above, the configuration of drawing 1 is realized using the so-called hardware and the so-called software resource of a computer. And the processing facility and procedure (process) of the emotion MESSEDO processing section 103, I/O control unit 104, and the communications control section 105 can be recorded and shown to a floppy disk, a memory card, CD-ROM, etc. as a program (emotion image communications program) of the format which can be performed by computer.

[Translation done.]